

Examiner's Gp

AN 127:164893 HCA
 TI High strength nonrefined **steel** with low ductility
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 PA Sumitomo Metal Industries, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09176786	A2	19970708	JP 1995-338650	19951226
AB	<p>The title steel contains C 0.20-1.20, Si .ltoreq.1.50, Mn 0.30-2.00, P .ltoreq.0.15, S .ltoreq.0.10, Cu .ltoreq.0.20, Ni .ltoreq.0.50, Cr 0.02-2.00, Mo .ltoreq.0.50, V .ltoreq.0.50, Nb .ltoreq.0.17, Ti .ltoreq.0.20, B .ltoreq.0.0100, Al .ltoreq.0.100, N .ltoreq.0.030, Pb .ltoreq.0.30, As .ltoreq.0.100, Sb .ltoreq.0.05, and Sn .ltoreq.0.05 wt.% satisfying $fn1 \geq 0.03$ and $fn2 \geq 0$ [$fn1 = As + Sb + Sn$, $fn2 = C + Si/10 + Mn/5 + 5Cr/22 + 1.65V - 5S/7 - 0.8$ (the element symbols represent wt.%)]. Automobile engine connecting rod and cap can be prepd. from the steel by integral forging and sepg. at room temp.</p>				

0.2-1.2 C

$\leq 1.5 S_i$

0.3-2 Mn

$\leq 0.15 P$

$\leq 0.1 S$

$\leq 0.2 Cu$

$\leq 0.5 N_i$

0.02-2 Cr

Fe